

Application No. 10/648,247
Amendment dated April 24, 2007
Reply to Office Action of October 24, 2006

Docket No.: 0941-0816P

AMENDMENTS TO THE DRAWINGS

Attached hereto is one (1) sheet of corrected drawings that comply with the provisions of 37 C.F.R. § 1.84. The corrected drawings incorporate the following drawing changes:

Fig. 4 has been labeled as "(Prior Art)".

It is respectfully requested that the corrected drawings be approved and made a part of the record of the above-identified application.

Application No. 10/648,247
Amendment dated April 24, 2007
Reply to Office Action of October 24, 2006

Docket No.: 0941-0816P

REMARKS

Claims 1-17 remain present in this application.

The specification and claim 1 have been amended. Reconsideration of the application, as amended, is respectfully requested.

Amendment to the Drawings

Attached hereto is a replacement sheet for Fig. 4, which has now been labeled as "Prior Art" so as to be consistent with the description of this figure in the specification. It is noted that this figure was selected for inclusion on the first page of the published application by the U.S. Patent and Trademark Office, as being representative of the present application. However, because this figure is prior art, it is not representative of the present application. It is believed that Fig. 3C would be a more representative figure. Accordingly, an Application Data Sheet is attached hereto, which now lists Fig. 3C as the "Suggested Drawing Figure."

Amendments to the Claims

It is noted that independent claim 1 has been amended to recite that the dual-mode receiver has hardware shared elements between two modes. Support for this change can be found on page 9, line 3 through page 11, line 28 of the originally filed specification, and in Fig. 3C. Accordingly, it is respectfully submitted that the foregoing amendments do not contain new matter.

Application No. 10/648,247
Amendment dated April 24, 2007
Reply to Office Action of October 24, 2006

Docket No.: 0941-0816P

Rejection under 35 USC 102

Claims 1-3 stand rejected under 35 USC 102(b) as being anticipated by Wilson, U.S. Patent 7,099,688. This rejection is respectfully traversed.

Independent claim 1 sets forth a receiving method for a dual-mode receiver, wherein, when a received communication signal is a wideband signal, the dual-mode receiver is configured as a direct-conversion receiver; and when a received communication signal is a narrowband signal, the dual-mode receiver is configured as a low-IF receiver, wherein the dual-mode receiver has hardware shared elements between two modes. Referring to the wide band and narrow band processing elements in Fig. 3C, for example, the DC offset cancellation unit 310a and 310b, the lowpass filter 312a and 312b and the programmable gain amplifiers 314a and 314b are shared between the direct-conversion mode and low-IF mode. Thus, hardware costs of the receiver can be reduced.

Wilson does not teach or suggest that the dual-mode receiver has hardware shared elements between two modes. Referring to Fig. 2 of Wilson, the wide band direct downconvert processing 204 and the narrow band low-IF processing 206 are separated. Thus, hardware costs of the receiver are increased in Wilson, when compared to the present application.

In view of the foregoing amendments and remarks, it is respectfully submitted that the prior art utilized by the Examiner fails to teach or suggest the method of independent claim 1 and its dependent claims. Reconsideration and withdrawal of the 35 USC 102 rejection are therefore respectfully requested.

Application No. 10/648,247
Amendment dated April 24, 2007
Reply to Office Action of October 24, 2006

Docket No.: 0941-0816P

Allowable Subject Matter

Applicants gratefully acknowledge that the Examiner considers claims 4-17 to be allowable. In view of the foregoing amendments and remarks, it is respectfully submitted that all claims should now be in condition for allowance.

Conclusion

Favorable reconsideration and an early Notice of Allowance are earnestly solicited.

Because the additional prior art cited by the Examiner has been included merely to show the state of the prior art and has not been utilized to reject the claims, no further comments concerning these documents are considered necessary at this time.

In the event that any outstanding matters remain in this application, the Examiner is invited to contact the undersigned at (703) 205-8000 in the Washington, D.C. area.

Pursuant to 37 C.F.R. §§ 1.17 and 1.136(a), the Applicants respectfully petition for a one (1) month extension of time for filing a response in connection with the present application and the required fee of \$1,020.00 is attached herewith.

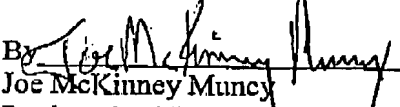
Application No. 10/648,247
Amendment dated April 24, 2007
Reply to Office Action of October 24, 2006

Docket No.: 0941-0816P

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Dated: April 24, 2007

Respectfully submitted,

By 
Joe McKinney Muncy
Registration No.: 32,334
BIRCH, STEWART, KOLASCH & BIRCH, LLP
8110 Gatehouse Road
Suite 100 East
P.O. Box 747
Falls Church, Virginia 22040-0747
(703) 205-8000
Attorney for Applicant